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RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/10/057,550

TIME: 12:37:22

Input Set : N:\Crf3\RULE60\10057550.txt

Output Set: N:\CRF3\02192002\J057550.raw

3 <110> APPLICANT: Monia, Brett P.
 5 <120> TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene Expression
 W--> 7 <130> FILE REFERENCE:
 9 <140> CURRENT APPLICATION NUMBER: 10/057,550
 10 <141> CURRENT FILING DATE: 2002-01-25
 12 <150> PRIOR APPLICATION NUMBER: 09/506,073
 13 <151> PRIOR FILING DATE: 2000-02-18
 15 <150> PRIOR APPLICATION NUMBER: US 09/143,214
 16 <151> PRIOR FILING DATE: 1998-08-28
 18 <150> PRIOR APPLICATION NUMBER: PCT/US98/13961
 19 <151> PRIOR FILING DATE: 1998-07-06
 21 <150> PRIOR APPLICATION NUMBER: US 08/888,982
 22 <151> PRIOR FILING DATE: 1997-07-07
 24 <150> PRIOR APPLICATION NUMBER: US 08/756,806
 25 <151> PRIOR FILING DATE: 1996-11-26
 27 <150> PRIOR APPLICATION NUMBER: PCT/US95/07111
 28 <151> PRIOR FILING DATE: 1995-05-31
 30 <150> PRIOR APPLICATION NUMBER: US 08/250,856
 31 <151> PRIOR FILING DATE: 1994-05-31
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 36 <211> LENGTH: 20
 37 <212> TYPE: DNA
 38 <213> ORGANISM: artificial sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: antisense sequence
 43 <400> SEQUENCE: 1
 44 tgaaggtgag ctggagccat 20
 46 <210> SEQ ID NO: 2
 47 <211> LENGTH: 20
 48 <212> TYPE: DNA
 49 <213> ORGANISM: artificial sequence
 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: antisense sequence
 54 <400> SEQUENCE: 2
 55 gctccattga tgcagcttaa 20
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 20
 59 <212> TYPE: DNA
 60 <213> ORGANISM: artificial sequence
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: antisense sequence
 65 <400> SEQUENCE: 3

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68 <210> SEQ ID NO: 4
69 <211> LENGTH: 20
70 <212> TYPE: DNA
71 <213> ORGANISM: artificial sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: antisense sequence
76 <400> SEQUENCE: 4
77 ggtgcaaagt caactagaag                20
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 20
81 <212> TYPE: DNA
82 <213> ORGANISM: artificial sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: antisense sequence
87 <400> SEQUENCE: 5
88 attcttaaac ctgaggggagc                20
90 <210> SEQ ID NO: 6
92 <211> LENGTH: 20
93 <212> TYPE: DNA
94 <213> ORGANISM: artificial sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: antisense sequence
99 <400> SEQUENCE: 6
100 gatgcagctt aaacaattct                20
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 20
104 <212> TYPE: DNA
105 <213> ORGANISM: artificial sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: antisense sequence
110 <400> SEQUENCE: 7
111 cagcactgca aatggcttcc                20
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 20
115 <212> TYPE: DNA
116 <213> ORGANISM: artificial sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: antisense sequence
121 <400> SEQUENCE: 8
122 tcccgcctgt gacatgcatt                20
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 20
126 <212> TYPE: DNA
127 <213> ORGANISM: artificial sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: antisense sequence
132 <400> SEQUENCE: 9
133 gccgagtgcc ttgcctggaa                20
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137 <212> TYPE: DNA
138 <213> ORGANISM: artificial sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: antisense sequence
143 <400> SEQUENCE: 10
144 agagatgcag ctggagccat 20
146 <210> SEQ ID NO: 11
147 <211> LENGTH: 20
148 <212> TYPE: DNA
149 <213> ORGANISM: artificial sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: antisense sequence
154 <400> SEQUENCE: 11
155 aggtgaaggc ctggagccat 20
157 <210> SEQ ID NO: 12
158 <211> LENGTH: 20
159 <212> TYPE: DNA
160 <213> ORGANISM: artificial sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: antisense sequence
165 <400> SEQUENCE: 12
166 gtctggcgct gcaccactct 20
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 20
170 <212> TYPE: DNA
171 <213> ORGANISM: artificial sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: antisense sequence
176 <400> SEQUENCE: 13
177 ctgatttcca aaatcccatg 20
179 <210> SEQ ID NO: 14
180 <211> LENGTH: 20
181 <212> TYPE: DNA
182 <213> ORGANISM: artificial sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: antisense sequence
187 <400> SEQUENCE: 14
188 ctgggctgtt tggcctta 20
190 <210> SEQ ID NO: 15
191 <211> LENGTH: 20
192 <212> TYPE: DNA
193 <213> ORGANISM: artificial sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: antisense sequence
198 <400> SEQUENCE: 15
199 tcagggtgg actgcctgct 20
201 <210> SEQ ID NO: 16

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207 <223> OTHER INFORMATION: antisense sequence
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213 <211> LENGTH: 20
214 <212> TYPE: DNA
215 <213> ORGANISM: artificial sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: antisense sequence
220 <400> SEQUENCE: 17
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223 <210> SEQ ID NO: 18
224 <211> LENGTH: 20
225 <212> TYPE: DNA
226 <213> ORGANISM: artificial sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: antisense sequence
231 <400> SEQUENCE: 18
232 ttcggcgggca gcttctcgcc          20
234 <210> SEQ ID NO: 19
235 <211> LENGTH: 20
236 <212> TYPE: DNA
237 <213> ORGANISM: artificial sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: antisense sequence
242 <400> SEQUENCE: 19
243 gccgccccaa cgtcctgtcg          20
245 <210> SEQ ID NO: 20
246 <211> LENGTH: 20
247 <212> TYPE: DNA
248 <213> ORGANISM: artificial sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: antisense sequence
253 <400> SEQUENCE: 20
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256 <210> SEQ ID NO: 21
257 <211> LENGTH: 20
258 <212> TYPE: DNA
259 <213> ORGANISM: artificial sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: antisense sequence
264 <400> SEQUENCE: 21
265 ctgcccgt cctcctcccc          20
267 <210> SEQ ID NO: 22
268 <211> LENGTH: 20

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270 <213> ORGANISM: artificial sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: antisense sequence
275 <400> SEQUENCE: 22
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279 <211> LENGTH: 20
280 <212> TYPE: DNA
281 <213> ORGANISM: artificial sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: antisense sequence
286 <400> SEQUENCE: 23
287 cgggagggcgg tcacattcgg 20
289 <210> SEQ ID NO: 24
290 <211> LENGTH: 20
291 <212> TYPE: DNA
292 <213> ORGANISM: artificial sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: antisense sequence
297 <400> SEQUENCE: 24
298 tctggcgctg caccactctc 20
300 <210> SEQ ID NO: 25
301 <211> LENGTH: 2977
302 <212> TYPE: DNA
303 <213> ORGANISM: homo sapiens
305 <220> FEATURE:
307 <400> SEQUENCE: 25
308 ccgaatgtga cgcctcccg ctccctcacc cgccgcggg aggaggagcg 50
309 ggcgagaagc tgccgccgaa cgacaggacg ttggggcggc ctggctccct 100
310 caggtttaag aattgtttaa gctgcatcaa tggagcacat acagggagct 150
311 tggaagacga tcagcaatgg ttttggattc aaagatgccg tgtttgatgg 200
312 ctccagctgc atctctccta caatagttca gcagtttggc tatcagcgcc 250
313 gggcatcaga tgatggcaaa ctcacagatc cttctaagac aagcaacact 300
314 atccgtgttt tcttgccgaa caagcaaaga acagtgggtca atgtgcgaaa 350
315 tggaatgagc ttgcatgact gccttatgaa agcactcaag gtgagggggcc 400
316 tgcaaccaga gtgctgtgca gtgttcagac ttctccacga acacaaaggt 450
317 aaaaaagcac gcttagattg gaatactgat gctgcgtctt tgattggaga 500
318 agaacttcaa gtagatttcc tggatcatgt tcccctcaca acacacaact 550
319 ttgctcggaa gacgttcctg aagcttgcc tctgtgacat ctgtcagaaa 600
320 ttcctgctca atggatttctg atgtcagact tgtggctaca aatttcatga 650
321 gcaactgtagc accaaagtac ctactatgtg tgtggactgg agtaacatca 700
322 gacaactctt attgtttcca aattccacta ttggtgatag tggagtccca 750
323 gcactacctt ctttgactat gcgtcgtatg cgagagtctg tttccaggat 800
324 gcctgttagt tctcagcaca gatattctac acctcacgcc ttcaccttta 850
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326 acatccacac ctaatgtcca catggtcagc accacgctgc ctgtggacag 950
327 caggatgatt gaggatgcaa ttcgaagtca cagcgaatca gcctcacctt 1000
328 cagccctgtc cagtagcccc aacaatctga gcccaacagg ctggtcacag 1050

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VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10057550.txt

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L:7 M:201 W: Mandatory field data missing, FILE REFERENCE

L:431 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:29

L:431 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:29

L:431 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:29

L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:882 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:66

L:882 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66

L:882 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:66

L:882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:891 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:66

L:891 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66

L:891 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:66

L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:1379 M:283 W: Missing Blank Line separator, <400> field identifier

L:1650 M:283 W: Missing Blank Line separator, <220> field identifier